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ABSTRACT

The focus of the Association for Biology Laboratory Education (ABLE) is to improve the undergraduate biology laboratory experience by promoting the development and dissemination of interesting, innovative, and reliable laboratory exercises. This proceedings volume contains 18 papers: "Human DNA Fingerprinting by Polymerase Chain Reaction" (M. V. Bloom); "Polyacrylamide Gel Electrophoresis (PAGE) of Blood Proteins" (J. C. Mordacq & R. W. Ellington); "Transposon Mutagenesis of "Rhodobacter sphaeroides'" (T. Paustian & R. Kurtz); "Isolating Multiple Strains of 'Escherichia coli' for Coliphage Isolation, Phage-typing, and Mutant Recovery" (R. A. Levin); "Building Molecular Models of DNA, Protein, and Lipids" (A. L. Cordon & N. A. Straus); "Invertase Activity in Root Growth" (C. J. Perumalla, J. A. Hellebust, & C. A. Goldman); "The Hill Reaction: In Vitro and In Vivo Studies" (E. A. Funkhouser & D. E. Balint); "Determining Hemolymph Volume of the Cockroach" (J. J. B. Smith); "The Immune System: Red Cell Agglutination in Non-Humans" (F. W. Quimby & N. V. Ridenour); "An Analysis of Bone/Muscle Movement" (A. C. Jacklet); "Were Dinosaurs Cold- or Warm-Blooded?: An Exercise in Scientific Inference" (G. R. Hurlburt); "Inbreeding Depression and the Evolutionary Advantage of Outbreeding" (C. G. Eckert); "Phylogenetic Systematics: Developing an Hypothesis of Amniote Relationships" (D. R. Brooks, D. A. McLennan, J. P. Carney, M. D. Dennison, & C. A. Goldman); "Light-Induced Phenotypic Plasticity in Plants" (D. E. Ryerson & N. G. Dengler); "When Do Adaptive Mutants Arise in Yeast?" (M. D. Dennison & C. A. Goldman); "Predator-Prey Coevolution" (L. R. Van Thiel); "The Evolution of Cooperative Behavior" (A. Lynch); and "An Investigation of the Behavior of the Pea Aphid, 'Acyrthosiphon pisum'" (J. C. Sharp & M. Andrade). Appendices contain additional mini-workshops and cumulative author and subject indexes. (MKR)